

#1300



PCT09

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/743,107A

TIME: 14:18:36

Input Set : A:\003300-723.ST25.txt

Output Set: N:\CRF3\02062002\I743107A.raw

4 <110> APPLICANT: Hanson, Lars A.
5 Baltzer, Lars
6 Mattsby-Baltzer, Inger
7 Dolphin, Gunnar T.
9 <120> TITLE OF INVENTION: Peptides Based on the Sequence of Human Lactoferrin
10 and Their Use
12 <130> FILE REFERENCE: 003300-723
14 <140> CURRENT APPLICATION NUMBER: US 09/743,107A
15 <141> CURRENT FILING DATE: 2001-09-13
17 <150> PRIOR APPLICATION NUMBER: PCT/SE99/01230
18 <151> PRIOR FILING DATE: 2000-09-29
20 <150> PRIOR APPLICATION NUMBER: SE 9802441-7
21 <151> PRIOR FILING DATE: 1998-07-06
23 <150> PRIOR APPLICATION NUMBER: SE 9802562-0
24 <151> PRIOR FILING DATE: 1998-07-17
26 <150> PRIOR APPLICATION NUMBER: SE 9804614-7
27 <151> PRIOR FILING DATE: 1998-12-29
29 <160> NUMBER OF SEQ ID NOS: 100
31 <170> SOFTWARE: PatentIn version 2.1
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 25
35 <212> TYPE: PRT
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <221> NAME/KEY: MOD_RES
40 <222> LOCATION: (1)
41 <223> OTHER INFORMATION: ACETYLTATION
43 <220> FEATURE:
44 <221> NAME/KEY: PEPTIDE
45 <222> LOCATION: (1)
46 <223> OTHER INFORMATION: Amino acid 1 is Xaa wherein Xaa = Glu or no amino acid.
48 <220> FEATURE:
49 <221> NAME/KEY: PEPTIDE
50 <222> LOCATION: (2)
51 <223> OTHER INFORMATION: Amino acid 2 is Xaa wherein Xaa = Ala or no amino acid.
53 <220> FEATURE:
54 <221> NAME/KEY: PEPTIDE
55 <222> LOCATION: (5)
56 <223> OTHER INFORMATION: Amino acid 5 is Xaa wherein Xaa = Cys or Ala.
58 <220> FEATURE:
59 <221> NAME/KEY: PEPTIDE
60 <222> LOCATION: (7)
61 <223> OTHER INFORMATION: Amino acid 7 is Xaa wherein Xaa = Gln or Lys.

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63 <220> FEATURE:
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66 <223> OTHER INFORMATION: Amino acid 11 is Xaa wherein Xaa = Asn or Asp.
68 <220> FEATURE:
69 <221> NAME/KEY: PEPTIDE
70 <222> LOCATION: (17)..(25)
71 <223> OTHER INFORMATION: Amino acids 17-25 are Xaa wherein Xaa = Gly, Pro, Pro, Val,
Ser,
72 Cys, Ile, Lys, Arg
74 <220> FEATURE:
75 <221> NAME/KEY: MOD_RES
76 <222> LOCATION: (25)
77 <223> OTHER INFORMATION: AMIDATION
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or artificial
81 origin, corresponding to modification of the sequence
82 consisting of aa 16-40 in human lactoferrin
84 <400> SEQUENCE: 1
W-> 86 Xaa Xaa Thr Lys Xaa Phe Xaa Trp Gln Arg Xaa Met Arg Lys Val Arg
87 1 5 10 15
W-> 89 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
90 20 25
92 <210> SEQ ID NO: 2
93 <211> LENGTH: 25
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
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98 <221> NAME/KEY: MOD_RES
99 <222> LOCATION: (1)
100 <223> OTHER INFORMATION: ACETYLTATION
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103 <221> NAME/KEY: MOD_RES
104 <222> LOCATION: (25)
105 <223> OTHER INFORMATION: AMIDATION
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
109 artificial origin, corresponding to a modification
110 of the sequence consisting of amino acids 16-40 in
111 human lactoferrin
113 <400> SEQUENCE: 2
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115 1 5 10 15
117 Gly Pro Pro Val Ser Cys Ile Lys Arg
118 20 25
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123 <211> LENGTH: 25
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:

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130 <223> OTHER INFORMATION: ACETYLTATION
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135 <223> OTHER INFORMATION: AMIDATION
137 <220> FEATURE:
138 <221> NAME/KEY: DISULFID
139 <222> LOCATION: (5)..(22)
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142 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
143     artificial origin, corresponding to a modification
144     of the sequence consisting of amino acids 16-40 in
145     human lactoferrin
147 <400> SEQUENCE: 3
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149   1           5           10           15
151 Gly Pro Pro Val Ser Cys Ile Lys Arg
152       20           25
156 <210> SEQ ID NO: 4
157 <211> LENGTH: 23
158 <212> TYPE: PRT
159 <213> ORGANISM: Artificial Sequence
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162 <221> NAME/KEY: MOD_RES
163 <222> LOCATION: (1)
164 <223> OTHER INFORMATION: ACETYLTATION
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168 <222> LOCATION: (23)..(23)
169 <223> OTHER INFORMATION: AMIDATION
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
173     artificial origin, corresponding to a modification
174     of the sequence consisting of amino acids 18-40 in
175     human lactoferrin
177 <400> SEQUENCE: 4
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179   1           5           10           15
181 Pro Val Ser Cys Ile Lys Arg
182       20
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187 <211> LENGTH: 23
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <221> NAME/KEY: MOD_RES
193 <222> LOCATION: (1)

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194 <223> OTHER INFORMATION: ACETYLTATION
196 <220> FEATURE:
197 <221> NAME/KEY: MOD_RES
198 <222> LOCATION: (23)
199 <223> OTHER INFORMATION: AMIDATION
201 <220> FEATURE:
202 <221> NAME/KEY: DISULFID
203 <222> LOCATION: (3)..(20)
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
207     artificial origin, corresponding to a modification
208     of the sequence consisting of amino acids 18-40 in
209     human lactoferrin
211 <400> SEQUENCE: 5
212 Thr Lys Cys Phe Gln Trp Gln Arg Asn Met Arg Lys Val Arg Gly Pro
213   1           5           10           15
215 Pro Val Ser Cys Ile Lys Arg
216           20
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221 <211> LENGTH: 14
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <221> NAME/KEY: MOD_RES
227 <222> LOCATION: (1)
228 <223> OTHER INFORMATION: ACETYLTATION
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231 <221> NAME/KEY: MOD_RES
232 <222> LOCATION: (14)
233 <223> OTHER INFORMATION: AMIDATION
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
237     artificial origin, corresponding to a modification
238     of the sequence consisting of amino acids 18-31 in
239     human lactoferrin
241 <400> SEQUENCE: 6
242 Thr Lys Ala Phe Lys Trp Gln Arg Asp Met Arg Lys Val Arg
243   1           5           10
247 <210> SEQ ID NO: 7
248 <211> LENGTH: 14
249 <212> TYPE: PRT
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <221> NAME/KEY: MOD_RES
254 <222> LOCATION: (1)
255 <223> OTHER INFORMATION: ACETYLTATION
257 <220> FEATURE:
258 <221> NAME/KEY: MOD_RES
259 <222> LOCATION: (14)

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260 <223> OTHER INFORMATION: AMIDATION
262 <220> FEATURE:
263 <221> NAME/KEY: BINDING
264 <222> LOCATION: (5)..(9)
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: of natural or
268     artificial origin, corresponding to a modification
269     of the sequence consisting of aa 18-31 in human
270     lactoferrin; a lactam is formed between aa 5 and 9
272 <400> SEQUENCE: 7
273 Thr Lys Ala Phe Lys Trp Gln Arg Asp Met Arg Lys Val Arg
274   1             5             10
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279 <211> LENGTH: 20
280 <212> TYPE: PRT
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide of
285     natural or artificial origin consisting of the
286     amino acids in positions 12-31 of the protein
287     human lactoferrin
289 <400> SEQUENCE: 8
290 Val Ser Gln Pro Glu Ala Thr Lys Cys Phe Gln Trp Gln Arg Asn Met
291   1             5             10             15
293 Arg Lys Val Arg
294           20
298 <210> SEQ ID NO: 9
299 <211> LENGTH: 7
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide of
305     natural or artificial origin consisting of the
306     amino acids in positions 12-18 of the protein
307     human lactoferrin
309 <400> SEQUENCE: 9
310 Val Ser Gln Pro Glu Ala Thr
311   1             5
315 <210> SEQ ID NO: 10
316 <211> LENGTH: 7
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide of
322     natural or artificial origin consisting of the
323     amino acids in positions 13-19 of the protein
324     human lactoferrin
326 <400> SEQUENCE: 10
327 Ser Gln Pro Glu Ala Thr Lys

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:1773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87
L:1796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:1819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:1842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90
L:2050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99